

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/884,388	06/19/2001	Xi Yuan Hua	J6662(C)	3575	
201	7590 01/11/2005		EXAM	EXAMINER	
UNILEVER INTELLECTUAL PROPERTY GROUP 700 SYLVAN AVENUE,			SHARAREH,	SHAHNAM J	
BLDG C2 Se	•		ART UNIT	PAPER NUMBER	
ENGLEWO	OD CLIFFS, NJ 0763	2-3100	1617		

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .	Applicant(s)	
		09/884,388	HUA ET AL.	
	Offic Action Summary	Examiner	Art Unit	
		Shahnam Sharareh	1617	
Peri d f	The MAILING DATE of this communicate r Reply	ation appears on the cover sheet w	ith the correspondence address	
THE - Exte after - If the - If NC - Failt Any	IORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION OF THIS COMMUNICATION (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum status are to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a ication. days, a reply within the statutory minimum of thi tory period will apply and will expire SIX (6) MO II, by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				•
1) 🖾	Responsive to communication(s) filed	on 06 October 2004.		
·)⊠ This action is non-final.		
3)□	Since this application is in condition fo closed in accordance with the practice	•	• •	
Disposit	ion of Claims		•	
5)□ 6)⊠ 7)□	Claim(s) 1-9 is/are pending in the apple 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-9 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from consideration.		
Applicat	ion Papers			
9)	The specification is objected to by the I	Examiner.		
10)[The drawing(s) filed on is/are: a		-	
	Applicant may not request that any objection			
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to be	· ·		
Priority (under 35 U.S.C. § 119			
a)		ocuments have been received. Ocuments have been received in the priority documents have been all Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachmen	t(s)	1		
1) Notic	ce of References Cited (PTO-892)		Summary (PTO-413)	
2) Notic 3) Inform	ee of Draftsperson's Patent Drawing Review (PTC mation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date)-948) Paper No	s)/Mail Date nformal Patent Application (PTO-152)	

Continued Examination Und r 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 6, 2004 has been entered.

Claims 1-9 are pending

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Kasting et al US Patent 5,434,144.

The instant claims are directed to microemulsion compositions comprising (a) an oil comprising squalene or squalane which is capable of dissolving at least 20% triolein and having spreadability factor S^r of greater than 0.3 to less than 2.5, (b) a surfactant, (c) 1-10% C₂-C₁₀ alcohol, (d) optionally water soluble polyalcohols or humectants and (e) water. Claim 9 is directed to methods of applying the claimed composition.

Kasting provides for topical microemulsions comprising 9-15% squalane, 25-50% silicone oil, 15-30% polysorbatan surfactant which is a nonionic surfactant, 7-20% water Application/Control Number: 09/884,388 Page 3

Art Unit: 1617

or other suitable carriers such as ethanol or isopropanal, butandiol which fall within the scope of C₂-C₁₀ alcohols (see col 6, lines 10-19; col 7, lines 61-col 8, line 2; examples 12-19; col 9, lines 40-65). Kasting also uses various therapeutcic and asthetic compounds such as perfumes, antiinflammatories, retinoids or antioxidants that meet the limitations of the instant sensory agents. (see col 9-14). The instantly claimed compositions do not exclude any elements of Kasting's compositions.

Further; since the oil component of the instant claims is limited to Squalane or Squalene as the only component, its functionality of dissolving at least 20% triolein and providing spreadability factor of at least 0.3 is viewed to be an inherent property of Squalane or Squalene. Thus, Kasting's compositions meet all the limitations of the instant claims.

The instant claims 9 is only directed to a single step of administering the claimed composition. Kasting also teaches methods of topical administration to skin which meets the limitations of the instant claim 9. (see col 16, lines 43-50, col 19, lines 1-50). Thus, Kasting anticipates all limitations of the instant claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/884,388

Art Unit: 1617

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forester et al US Patent 5,980,874 in view of Bauer US Patent 6,426,078.

Forester discloses microemulsions comprising a fatty component such as octyl dodecanol in amounts of about 6.5% wt, a non-ionic surfactant in amounts of about 20% wt comprising alkyl glycoside with or without ethylene oxide products of fatty alcohols, co-emulsifier including linear or branched C₈-C₁₀ fatty alcohols, ethanol or isopropanol in amounts of about 2%, a thickening agent or perfume oil that meets the limitations of instant sensory agents, and a humectants such as propylene glycol (see abstract; col 3,

Application/Control Number: 09/884,388

Art Unit: 1617

lines 5-22 and 56-66; col 4, lines 24-67; col 5, lines 32-36; examples 1-5; and claims 1-2, 9-14).

The amounts of co-surfactants used by Forester meet the limitations of the instantly claimed cosurfactant because Forester claims his ratio of nonionic emulsifier/coemulsifier as 2:1 to 15:1 (see Forester's claims 14). Since Forster claims up to 30% nonionic surfactant. The oils used by Forester are the same as those instantly claimed, because the instant specification at page 11 enumerates octyl dodecanol, coco caprylate/caprate and isopropyl myristrate as such oils.

Forester further states that other nonionic surfactants such as addition products of ethylene oxide with fatty alcohols containing 16 to 22 carbon atoms or with partial esters of polyols containing 3 to 6 carbon atoms may be used as the nonionic surfactant because they provide the same function as other nonionic surfactants (see col 3, lines 57-65). Polyoxyalkylenated alcohols encompass the addition products of ethylene oxide with fatty alcohols containing 16 to 22 carbon atoms or with partial esters of polyols containing 3 to 6 carbon atoms or the term polyol ethers. Thus, Forester provides for use of such surfactants. Forester only fails to explicitly use of Squalene or Squalane or polyoxyalkylenated alcohols as the nonionic surfactant in an exemplified product.

Bauer is used to show that for purposes of formulating microemulsions Squalane and Squalene are art recognized functional equivalents to the oils used by Forester (see col 2, lines 5-11). Since the oil component of the instant claims is limited to Squalane or Squalene as the only component, its functionality of dissolving at least 20% triolein and providing spreadability factor of at least 0.3 is viewed to be an inherent property of

Squalane or Squalene. Thus, such functional limitation in the instant composition claims is met.

Accordingly, absent showing of unexpected results it would have been obvious to one of ordinary skill in the art at the time of invention to substitute the oil components of Forester with other functional art equivalents such as Squalene or Squalane of Bauer because one of ordinary skill in the art would have had a reasonable expectation of success in observing similar functional properties when replacing the oils of Bauer with those of Forester.

Moreover, as recognized by Forester, polyoxyalkylenated alcohols are functional equivalent surfactants to alkyl glycosides. Thus, substituting polyoxyalkylenated alcohols in place of alkyl glycosides of Forester would have been obvious and well within the level of ordinary skill in the art.

Thus even though Forester provides the use of C_8 - C_{10} as suitable cosurfactant in 0.2 to 1.2 parts by weight in the oil phase in ratios of 1:2 to 1:10 with the emulsifier, he fails to explicitly teach that the use of C2-C10 in amounts of about 3 to 10% of his microemulsion.

Nevertheless, absence of showing unexpected results, it would have been obvious to one of ordinary skill in the art at the time of invention to optimize the amount of such fatty alcohols coemulsifiers to improve stability of the microemulsions of Forester.

Application/Control Number: 09/884,388 Page 7

Art Unit: 1617

C nclusion

No claims are allowed. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER